

(Exhaust) valve of internal combustion engine - made at least completion of intermetallic phases of nickel and aluminium

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Abstract of DE3935496

Valve, partic. exhaust valve, of internal combustion engine is made in part or completely of intermetallic phases of Ni and Al, partic. Ni₃Al or NiAl. Use of NiAl gives increased resistance to corrosion compared with Ni₃Al, while being lighter. B can be added to increase ductility at room temp. and facilitate processing, partic. in one piece. Alternatively the valve head can be mfd. and friction or electron-beam welded to a stem.

ADVANTAGE - High hot strength and fatigue resistance, low cost of mfr.

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